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(54) PREPARATION OF ACIDIC WATER AND ALKALINE WATER

(57) Abstract:

PROBLEM TO BE SOLVED: To provide a water electrolyzing method capable of simultaneously producing strong acidic water usable in sterilization, disinfection and washing and alkaline water suitable for drinking in low power consumption.

SOLUTION: In a water electrolytic cell demarcated into an anode chamber and a cathode chamber by a cation exchange membrane, electrolysis is performed while a weak acidic saline soln. is supplied into the anode chamber. When a neutral electrolyte is used, acidity and alkalinity are well-balanced and a combination of strong acidic water-weak alkaline water is not obtained in both electrode chambers but, since weak acidic anode supply soln. is used, strong acidic water can be formed in the anode chamber and weak alkaline water can be formed in the cathode chamber. Further, since the pH of the anode soln. is sufficiently lowered by pH of an acid present from the beginning, electrolysis may be performed only for a time necessary for obtaining sufficiently high ORP differently from a conventional electrolytic method and the same acid water is obtained in power consumption about 1/10 conventional one.

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